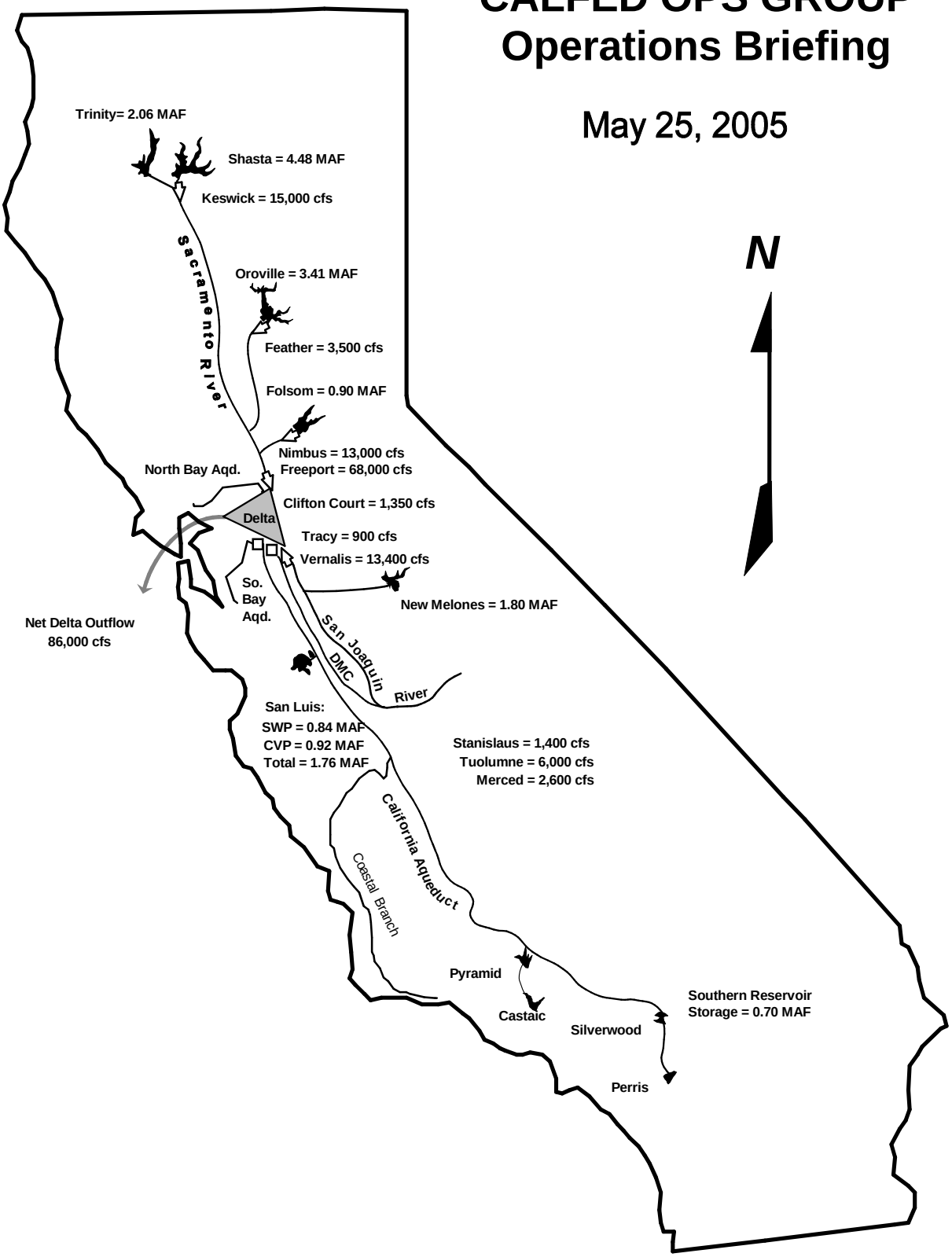
CALFED OPS GROUP
Operations Briefing

May 25, 2005



CURRENT SWP/CVP OPERATIONAL STATUS

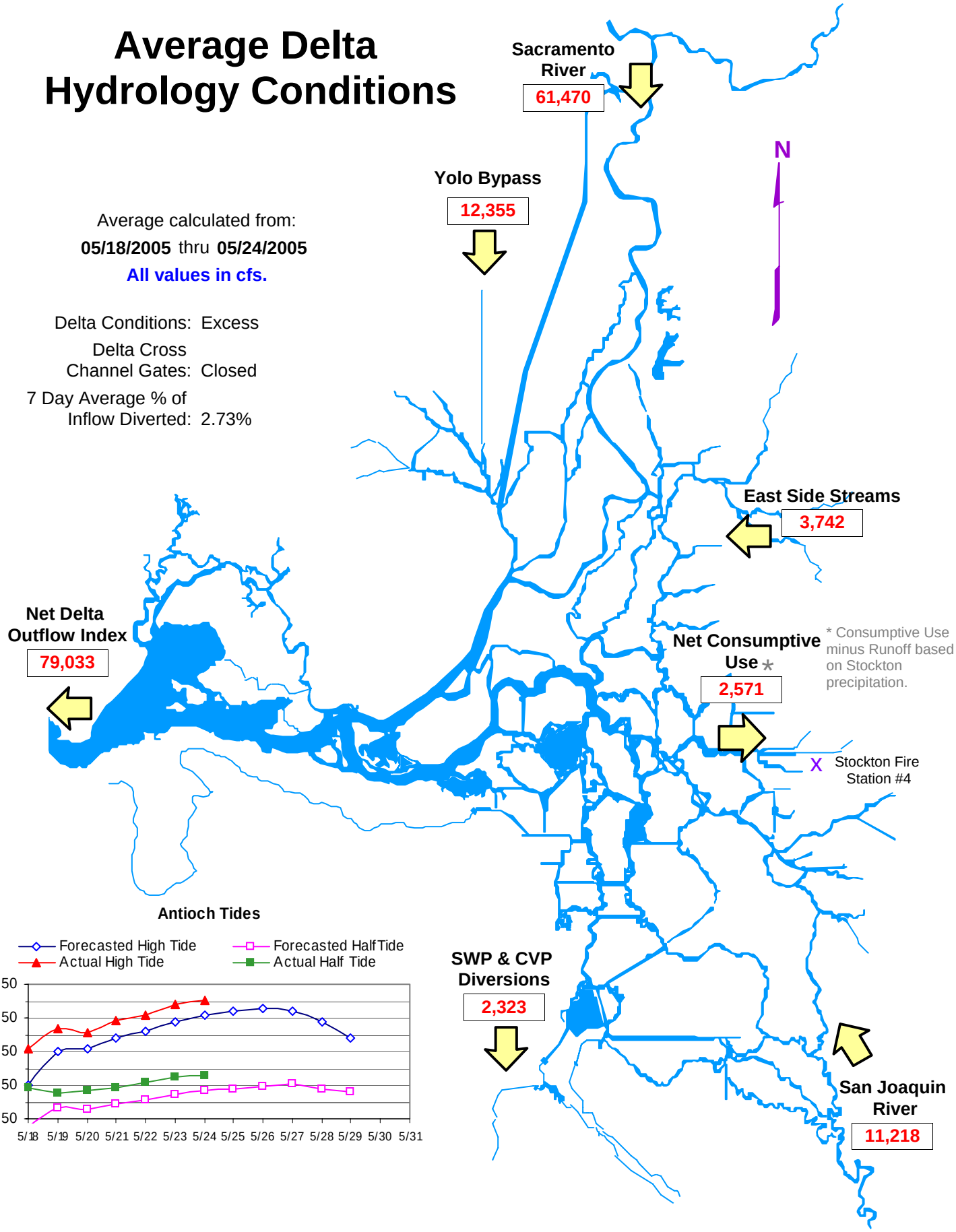
DATA AS OF
May 25, 2005

O&M, OSC

Average Delta Hydrology Conditions

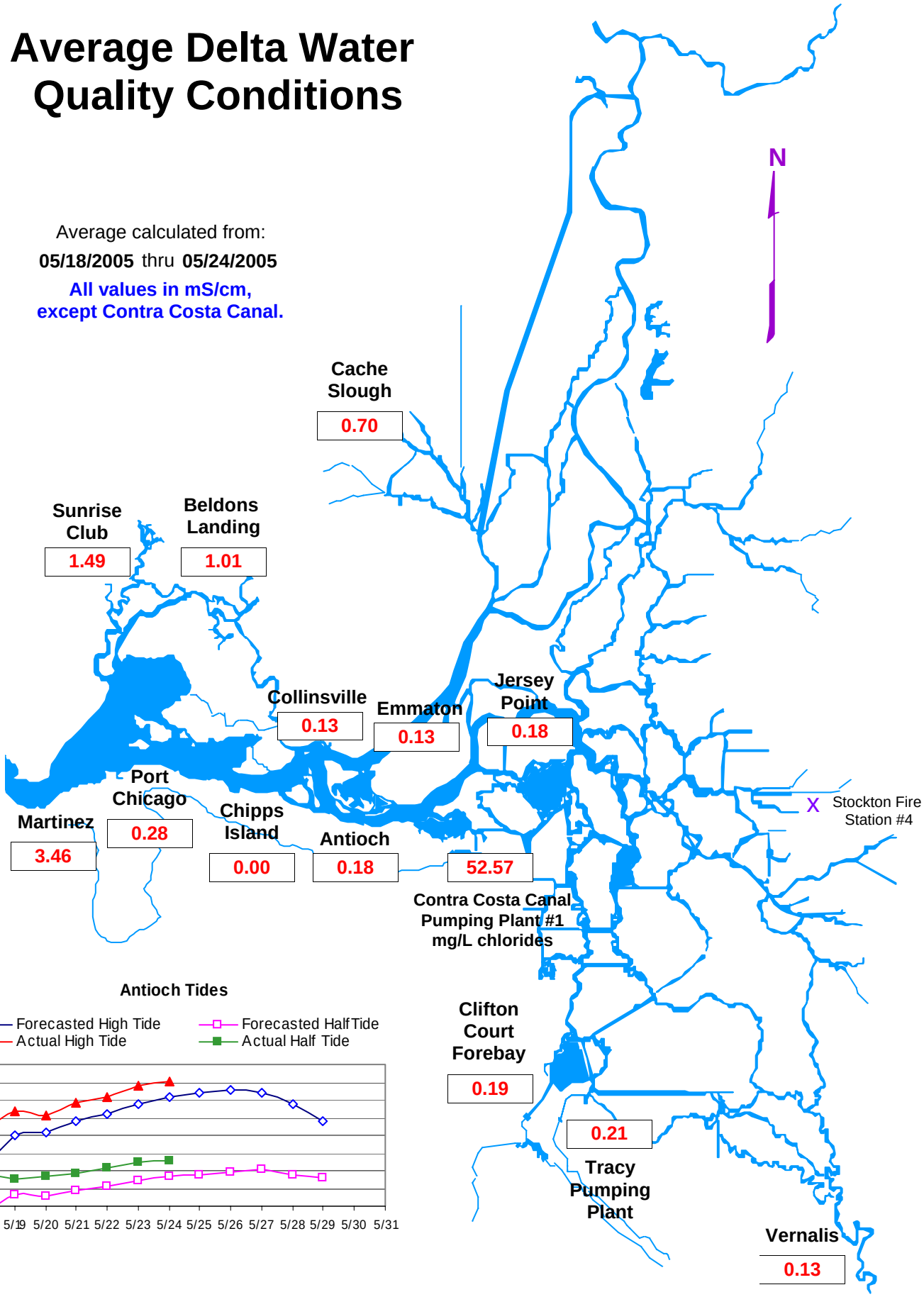
Average calculated from:
05/18/2005 thru **05/24/2005**
All values in cfs.

Delta Conditions: Excess
Delta Cross Channel Gates: Closed
7 Day Average % of Inflow Diverted: 2.73%

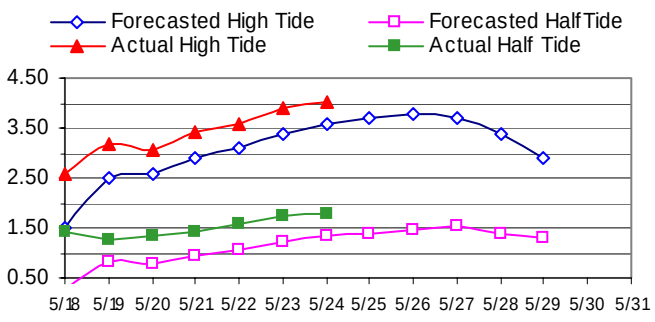


Average Delta Water Quality Conditions

Average calculated from:
05/18/2005 thru **05/24/2005**
All values in mS/cm, except Contra Costa Canal.



Antioch Tides



DRAFT

Bay-Delta Standards

Contained in D-1641

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CRITERIA	May 05	Jun 05	Jul 05
FLOW/OPERATIONAL			
• Fish and Wildlife	greater of 1,500 cfs or 100% of 3-day avg. Vernalis flow.		
SWP/CVP Export Limits			
Export/Inflow Ratio	35 % of Delta Inflow		65% of Delta Inflow
Minimum Outflow - mon.			6500 cfs
- 7 day avg.			5200 cfs
Habitat Protection Outflow, X2	7,100 - 11,400 cfs or X2 days (through June)		
	Chipps Island for 27 days. 31 Days at collinsville	30 days at collinsville,	
River Flows:			
@ Rio Vista - min. mon. avg.			
- 7 day average			
@ Vernalis: Base -min. mon. avg.		3420 cfs	
- 7 day average		2736 cfs	
Pulse objective	7020 cfs, Per VAMP		
Delta Cross Channel Gates	Closed	May 21 - June 15 close 14 days per CALFED Op's ← gates may close 4 consec. days ea. wk.	
WATER QUALITY STANDARDS			
• Municipal and Industrial			
All Export Locations	Cl <= 250 mg/l		
Contra Costa Canal	Cl <= 150 mg/l for 175 days for Below Normal Year Type		
• Agriculture			
Western/Interior Delta	Max. 14-day average EC mmhos/cm: 0.45 mS/cm		
Southern Delta	30-day running average EC <= 0.7 mS		
• Fish and Wildlife			
San Joaquin River Salinity	14-day avg; 0.44 EC		
Suisun Marsh Salinity	11.0 mhtEC		

Water Year Classification: (May 1 forecast)

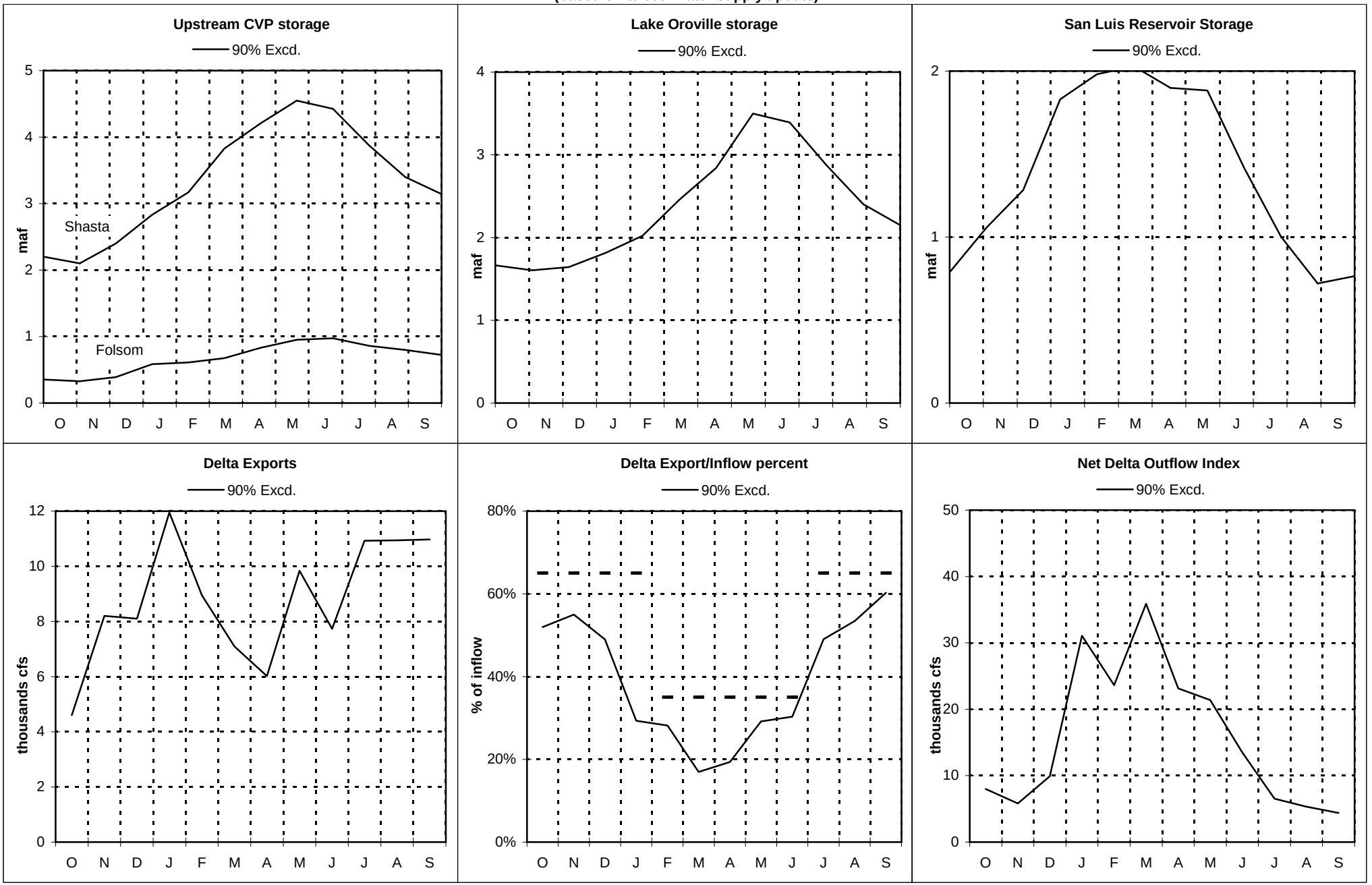
SRI (40-30-30 @ 50%) = 7.4 (BN) Apr 8RI: 3.190 MAF

SJV (60-20-20 @75%) = 4.2 (Wet)

Preliminary, Subject to Revision

SWP & CVP WY 2005 Forecasted Operations.

(based on 5/1/05 water supply update)



Flows are monthly averages.

WY 2004/2005 EWA Accounting Summary

Based upon May Operations Study - 90% Exceedance Hydrology

Assumptions: SWP Allocation - 80%; NOD Purchases - 78.2 TAF; SOD Purchases - 148.5 TAF

(Pre-VAMP shoulder started on 4/17/05; VAMP started on 5/1/05; DEBT < 100 TAF TO PROJECTS)

(San Joaquin flow at Vernalis for May is between 7,000 and 17,000 cfs; Exports are at a combined 2,250 cfs)

(The EWA cost for VAMP is based upon an average flow of 10,000 cfs)

EWA NOD and SOD Assets ((+ = Purchases) and (- = Releases))

1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD (Oroville)																	0.0
NOD (non-Oroville) [0]		18.7 [4]		6.2 [5]				62.0 [11]					10.0 [12]				78.2
YCWA [2]	0.9 [3]	-0.9 [3]															0.0
PCWA (released into Folsom)	7.9 [4]	7.9 [4]	2.9 [4]														18.7
Instream Uses/Non-Capturable Water					-15.4 [4]	-3.3 [14]											-18.7
TOTAL NOD				6.2				62.0					10.0				**78.2**
SOD (KCWA/SCVWD/MWD)										148.5 [13 15 16]							148.5
TOTAL SOD										148.5							**148.5**

EWA Asset Acquisition in SWP San Luis[1]

2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
EWA share of SWP gain			0.29														0.3
Project Pumping to reduce EWA debt						34.5											34.5
JPOD using excess flows																	0.0
JPOD using NOD storage																	0.0
Xfer NOD - Sacramento River [2]		0.9 [3]									16.8 [11]	21.8 [5 11]	16.0 [11]				55.4
Xfer NOD - San Joaquin River [2]														9.0 [13]			9.0
SOD SWP Surface/GW Purchases											29.7 [13]	55.0 [15]	55.0 [15]				139.7
Exchange of EWA assets																	0.0
Groundwater pumping SOD																	0.0
Exchange from CVP to SWP in SL																	0.0
Total Monthly EWA Assets		**0.9**	**0.3**	**0.0**	**0.0**	**34.5**	**0.0**	**0.0**	**0.0**	**0.0**	**46.5**	**76.8**	**71.0**	**9.0**	**0.0**	**0.0**	**238.9**

EWA Asset Acquisition in CVP San Luis[1]

3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
Project Pumping to reduce EWA debt							28.2										28.2
JPOD using excess flows																	0.0
JPOD using NOD storage																	0.0
Xfer NOD - Sacramento River [2]																	0.0
Xfer NOD - San Joaquin River [2]																	0.0
SOD CVP Surface/GW purchases											8.8 [16]						8.8
Exchange of EWA assets																	0.0
Groundwater pumping																	0.0
Exchange from SWP to CVP in SL																	0.0
Total Monthly EWA Assets	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**28.2**	**0.0**	**0.0**	**0.0**	**8.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	37.0

EWA Expenditures at the Export Pumps

4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts				-4.2 [6]		-32.8 [7]		-122.0 [8]	-128.0 [8]								-287.0
CVP export cuts						-11.0 [7]		0.0 [9]	0.0 [9]								-11.0
Total Expenditures	**0.0**	**0.0**	**0.0**	**-4.2**	**0.0**	**-43.8**	**0.0**	**-122.0**	**-128.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-298.0**

EWA End-of-Month Incremental Storage Changes

5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	1.4	0.9	0.3	-4.2	0.0	1.6	0.0	-122.0	-128.0	0.0	46.5	76.8	71.0	9.0	0.0	0.0	-46.7
CVP in SL	-17.2	0.0	0.0	0.0	0.0	-11.0	28.2	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	8.8
NOD Storage	0.9	17.8	0.0	6.2	-15.4	-3.3	0.0	62.0	0.0	0.0	-21.0	-27.2	-10.0	-10.0	0.0	0.0	0.0
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.5	-38.5	-55.0	-55.0	0.0	0.0	0.0	0.0
Total Incremental Storage Changes	**-14.9**	**18.7**	**0.3**	**2.1**	**-15.4**	**-12.7**	**28.2**	**-60.0**	**-128.0**	**148.5**	**-4.2**	**-5.4**	**6.0**	**-1.0**	**0.0**	**0.0**	**-37.9**

EWA Cumulative End-of-Month Storage Balance at Various Sites

6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SWP in SL (without Source Shift)	1.4	2.2	2.5	-1.6	-1.6	0.0	0.0	-122.0	-250.0	-250.0	-203.5	-126.7	-55.7	-46.7	-46.7	-46.7
CVP in SL (without Source Shift)	-17.2	-17.2	-17.2	-17.2	-17.2	-28.2	0.0	0.0	0.0	0.0	8.8	8.8	8.8	8.8	8.8	8.8
NOD Storage	0.9	18.7	18.7	24.9	9.5	6.2	6.2	68.2	68.2	68.2	47.2	20.0	10.0	0.0	0.0	0.0
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.5	110.0	55.0	0.0	0.0	0.0	0.0
EWA Asset Balance	**-14.9**	**3.8**	**4.1**	**6.1**	**-9.2**	**-21.9**	**6.2**	**-53.8**	**-181.8**	**-33.3**	**-37.5**	**-42.9**	**-36.9**	**-37.9**	**-37.9**	**-37.9**

San Luis Reservoir Storage Conditions

7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Storage (base case) [10]		803	1072	1301	1829	1996	2030	2020	1730	1265	877	623	700	633	724	882
SWP		520	601	674	1015	1100	1063	1055	830	761	667	612	685	551	494	464
CVP		283	471	628	814	897	966	965	900	504	210	11	15	82	230	418
Encroachment																
Total Storage (EWA case)		788	1058 0	1283	1810	1968	2030	1898	1480	1015	682	505	653	595	686	844
MWD Source Shifting																
Storage (with MWD source shifting)		**788**	**1058**	**1283**	**1810**	**1968**	**2030**	**1898**	**1480**	**1015**	**682**	**505**	**653**	**595**	**686**	**844**

[0] 2005 NOD Purchases = 6.2(SFWP) + 62(YCWA) + 10(MID). Additional option offers: 63(YCWA) + 5(MID)
2005 SOD Purchases = 110(KCWA & MWD). Prop 204 = 29.7(KCWA) + 8.8(SCVWD).

[1] Aqueduct conveyance and evaporation losses are not included.

[2] Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise);
a 10% conveyance loss applies to water transfers from the San Joaquin River.
Carriage water loss in WY 2004 was 0%.

[3] 2004 YCWA Transfer (Joint place of use) [4] 2004 PCWA Transfer (Joint place of use) [5] 2005 SFWP Transfer (Joint place of use)

[6] About 4.2 TAF was expended for the Delta Action 8 experiment which occurred between 12/6/04 - 12/15/04.

[7] About 60.2 TAF was expended for the export curtailment which occurred between 2/205 - 2/7/05.

[8] The SWP's projected cost for VAMP is 199 TAF. The cost for a Pre-VAMP Shoulder is about 122 TAF.

[9] The CVP's costs for a pre-VAMP shoulder and most of VAMP are assumed to be covered by B2.

[10] Based upon the 5/2005 DWR's 90% (90% Fall) allocation study and 5/2005 USBR's 90% (90% Fall) B2 forecast.

[11] 2005 YCWA Transfer (Joint place of use) [12] 2005 MID Transfer (Joint place of use)

[13] 2005 Prop 204 SOD Transfer (SWP place of use) - KCWA

[14] The CVP spilled ~ 3.3 TAF of EWA water stored in Folsom during flood control operations.

[15] 2005 SOD Transfers (SWP place of use) - KCWA and MWD [16] 2005 Prop 204 SOD Transfer (CVP place of use) - SCVWD